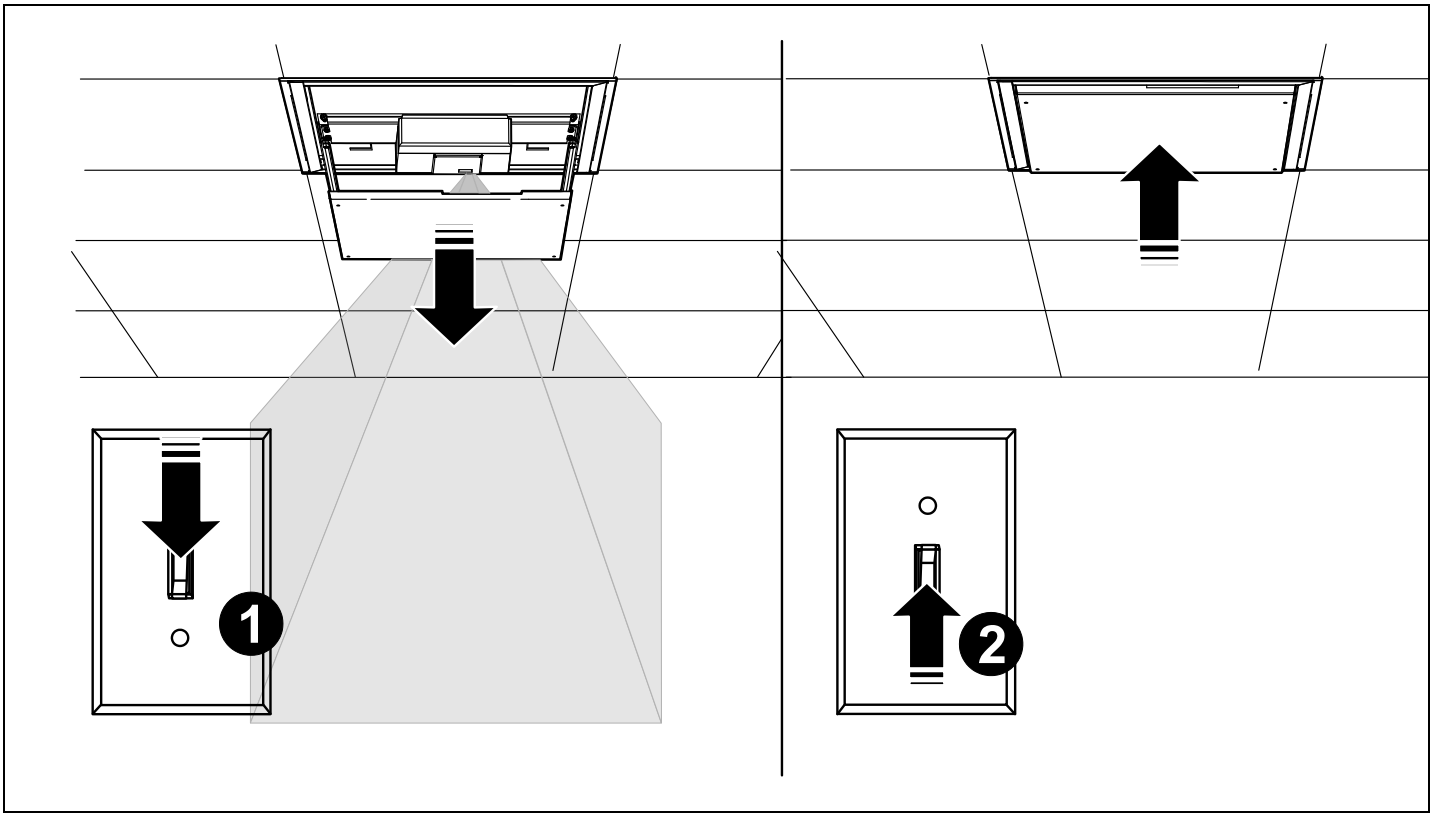
OPERATING INSTRUCTIONS

MODEL: SLEU PROJECTOR LIFT



OPERATION:

WARNING: IMPROPER USE CAN LEAD TO EQUIPMENT FAILURE CAUSING SERIOUS PERSONAL INJURY AND DAMAGE TO EQUIPMENT! There are NO user servicable parts within the SLEU lift. If lift fails to operate properly immediately contact a Chief Customer Services Representative by calling 1-800-582-6480

1. Move control swith to the DOWN position to lower projector lift.
2. Move control swith to the UP position to raise projector lift.

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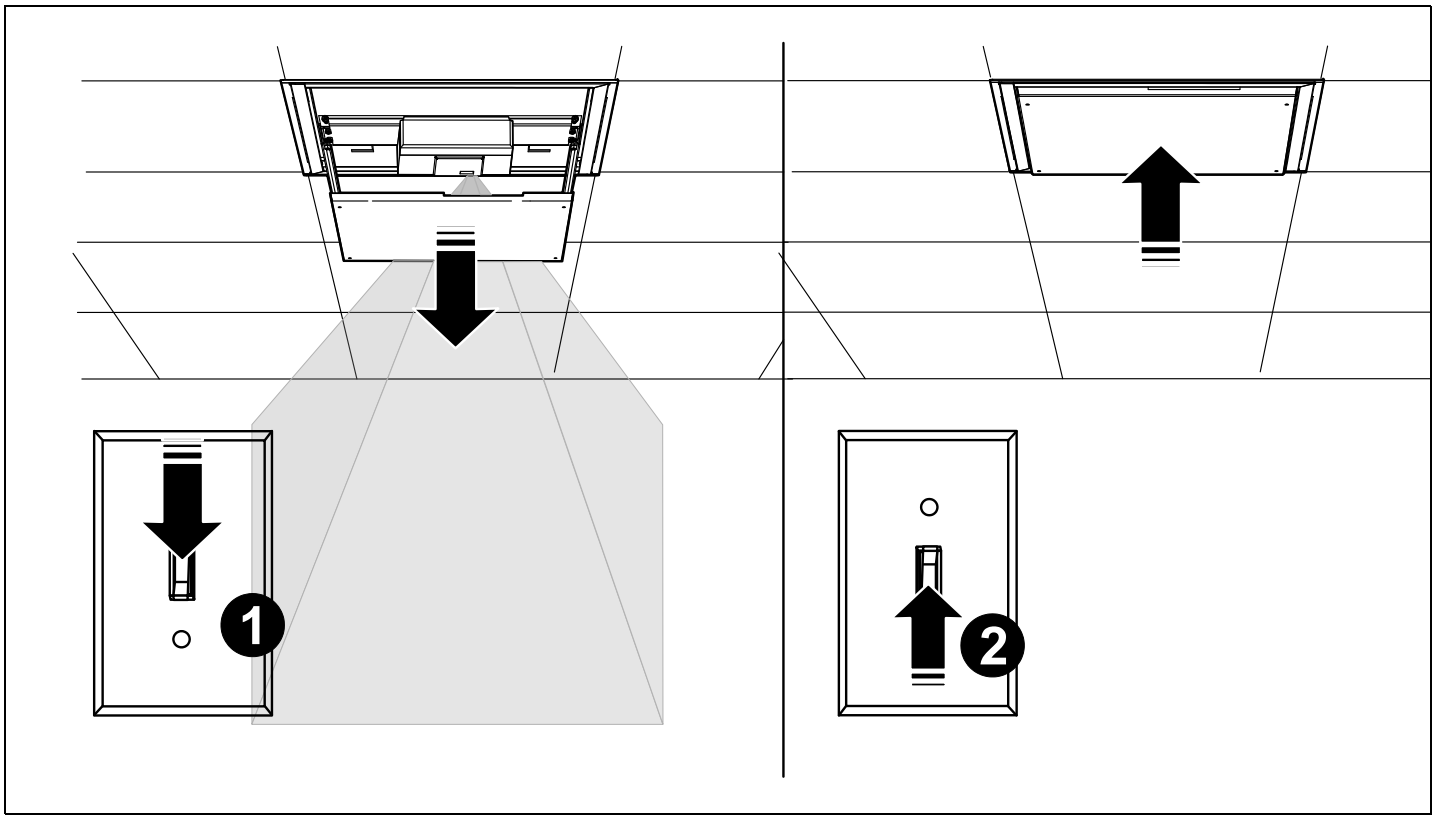
8860-000001
8/17/06

OPERATING INSTRUCTIONS



AVISO: SI NO SE UTILIZA CORRECTAMENTE, EL EQUIPO PODRÍA CAERSE Y CAUSAR GRAVES DAÑOS PERSONALES O MATERIALES. En el interior del elevador SLEU NO hay ninguna pieza que pueda reparar el usuario. Si el elevador no funciona correctamente, póngase inmediatamente en contacto con un representante del Departamento de Atención al Cliente de Chief Manufacturing llamando al número 1-800-582-6480.

1. Mueva el interruptor de control a la posición DOWN (ABAJO) para bajar el elevador del proyector.
2. Mueva el interruptor de control a la posición UP (ARRIBA) para subir el elevador del proyector.

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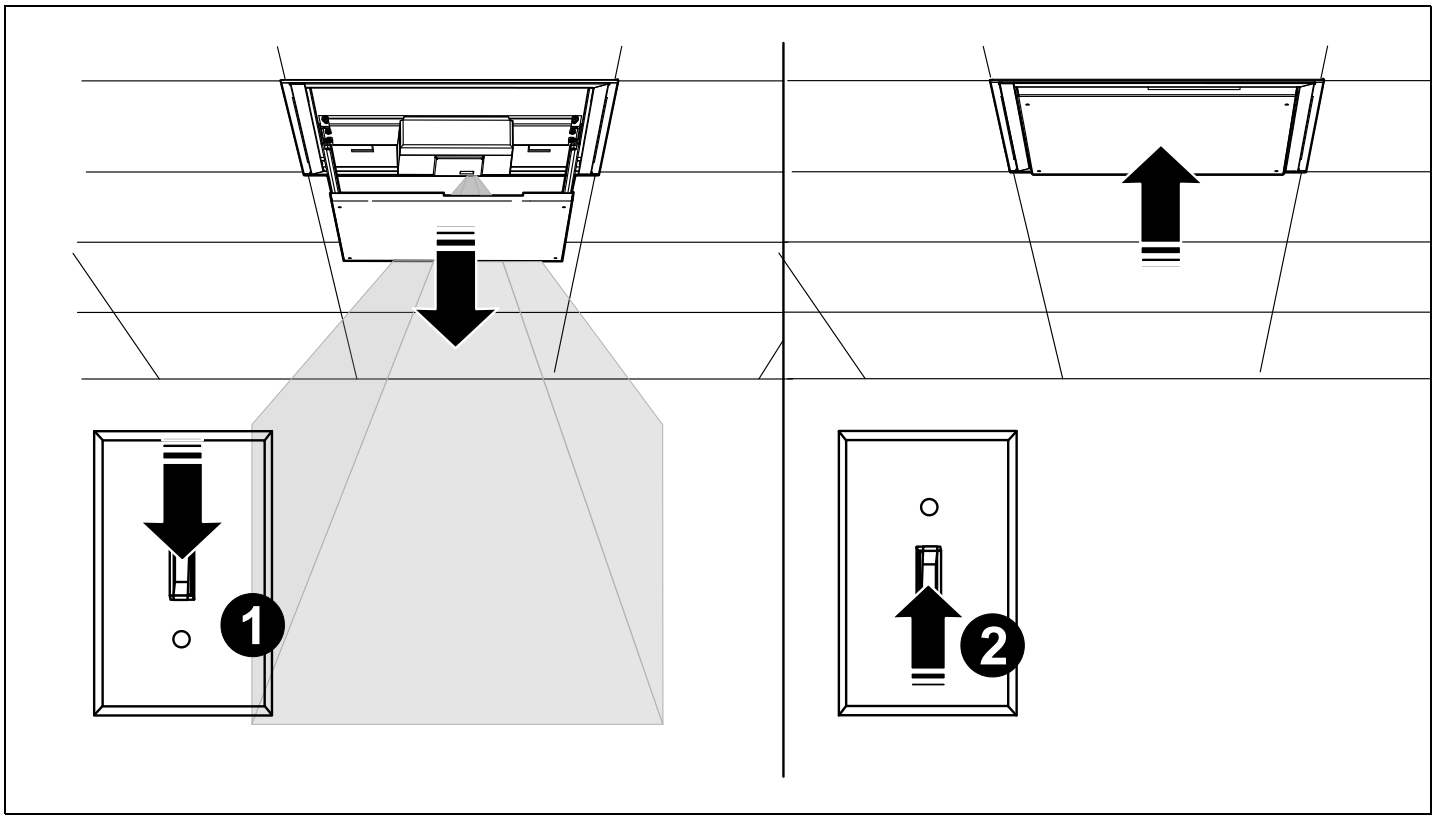

WARNUNG: EINE UNSACHGEMÄSSE VERWENDUNG KANN ZUM VERSAGEN DER GERÄTE FÜHREN, WAS SCHWERE K?RPERVERLETZUNGEN UND SCHÄDEN AN DEN GERÄTEN ZUR FOLGE HAT! Im SLEU-Lift befinden sich keine vom Benutzer zu wartenden Teile. Wenn der Lift nicht ordnungsgemäß funktioniert, wenden Sie sich umgehend an einen Kundendienstvertreter von Chief unter der Nummer 1-800-582-6480.

1. Den Steuerschalter nach UNTEN (DOWN) stellen, um den Projektorlift abzusenken.
2. Den Steuerschalter nach OBEN (UP) stellen, um den Projektorlift hochzufahren.

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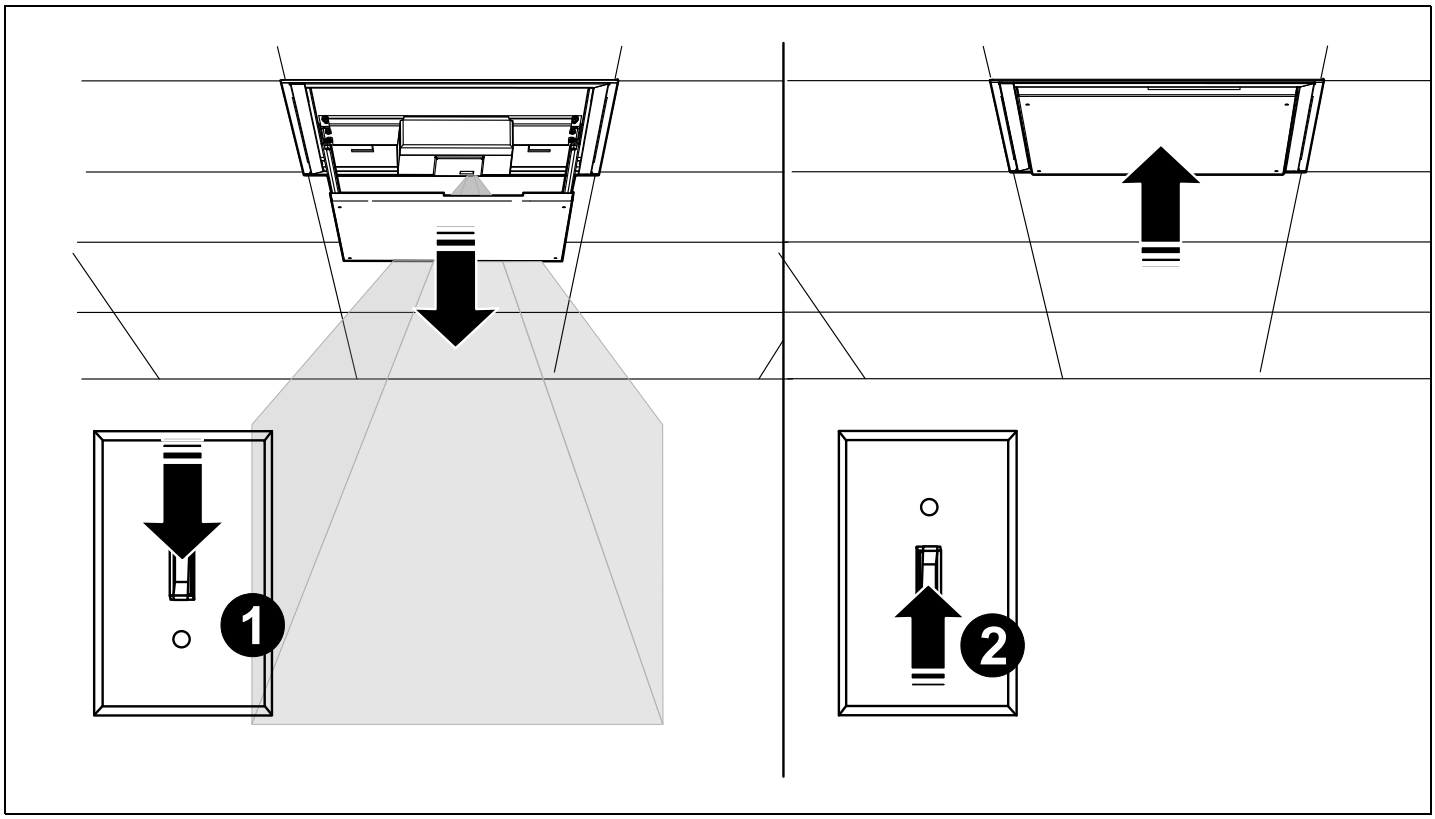

ADVERTÊNCIA: O USO INADEQUADO PODE CONDUZIR A FALHA DO EQUIPAMENTO E A CONSEQUENTES LESÕES PESSOAIS GRAVES E DANOS NO EQUIPAMENTO! NÃO existem peças no interior do elevador SLEU que possam ser reparadas pelo utilizador. Se o elevador não estiver operacional, contacte imediatamente um representante de assistência ao cliente da Chief através do telefone 1-800-582-6480.

1. Desloque o interruptor de controlo para a posição DOWN (BAIXO) para descer o elevador do projector.
2. Desloque o interruptor de controlo para a posição UP (CIMA) para subir o elevador do projector.

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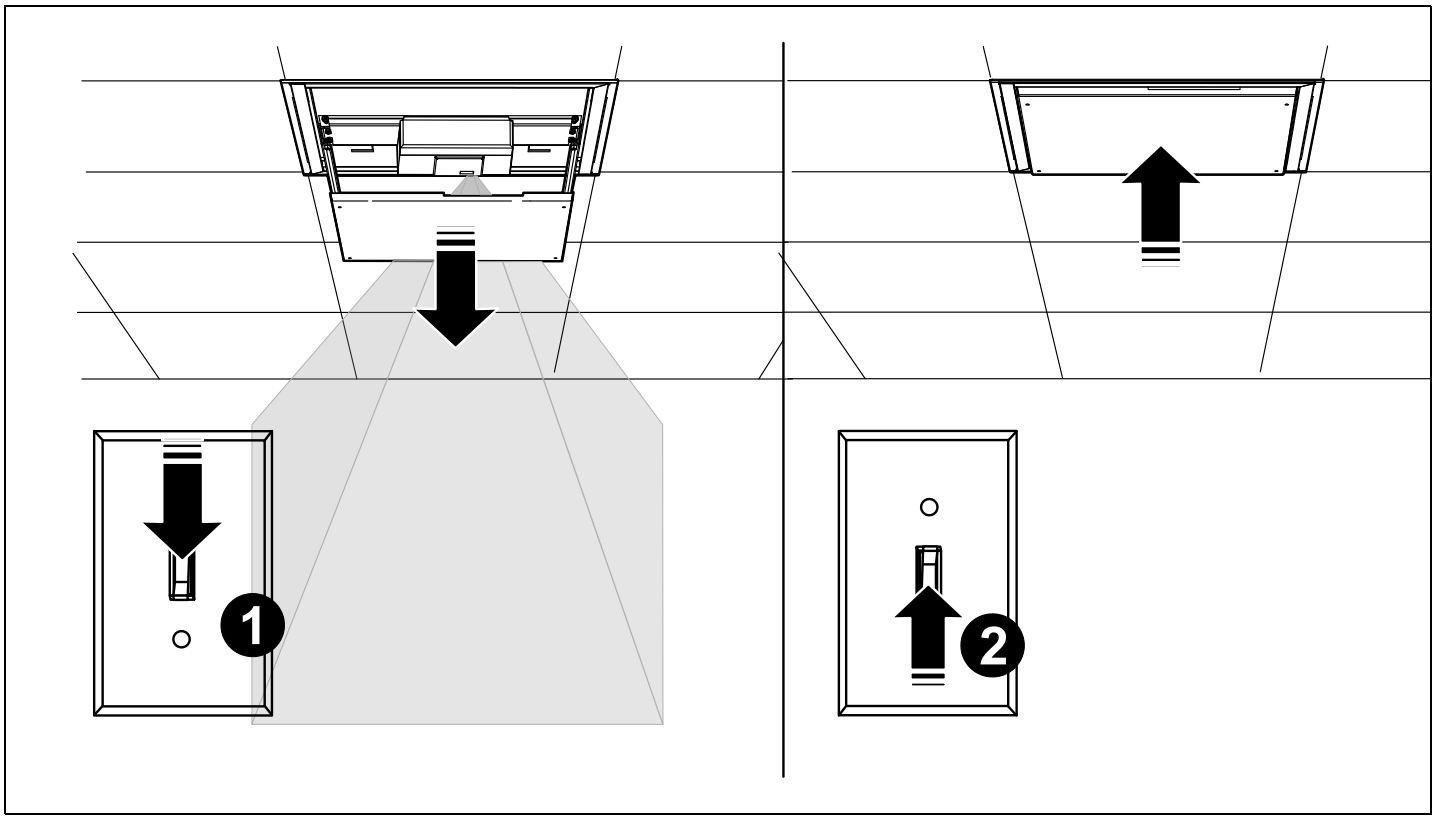

AVVERTENZA: UN USO INADEGUATO PUÒ PROVOCARE UN GUASTO, CON CONSEGUENTI LESIONI GRAVI O DANNI ALL'APPARECCHIATURA! La piattaforma elevatrice SLEU NON contiene componenti che l'utente può riparare personalmente. Se non dovesse funzionare correttamente, rivolgersi immediatamente all'assistenza clienti Chief telefonando al numero verde USA 1 800 582 6480.

1. Portare l'interruttore in posizione DOWN (GIÙ) per abbassare la piattaforma elevatrice del proiettore.
2. Portare l'interruttore in posizione UP (SU) per alzare la piattaforma elevatrice del proiettore.

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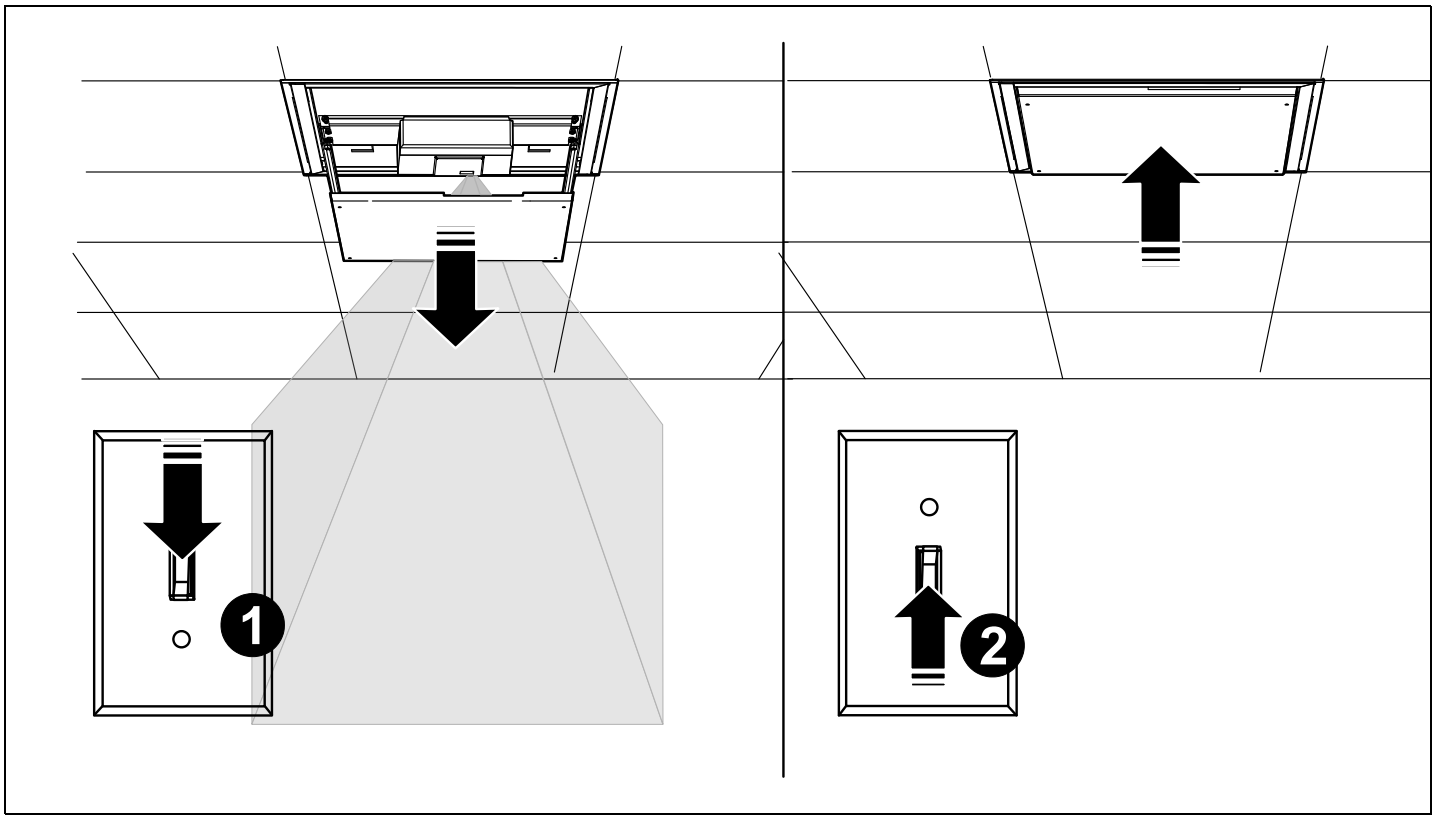
OPERATING INSTRUCTIONS



WAARSCHUWING: ONJUIST GEBRUIK KAN LEIDEN TOT HET FALEN VAN DE APPARATUUR EN ERNSTIG PERSOONLIJK LETSEL EN SCHADE AAN DE APPARATUUR VEROORZAKEN! Er zijn GEEN onderdelen in de SLEU Lift waar de gebruiker iets aan kan doen. Indien de lift niet goed werkt moet u onmiddellijk contact opnemen met een Hoofd Klantendienst Vertegenwoordiger door te bellen naar het nummer 1-800-562-6480.

1. Schuif de regelschakelaar naar BENEDEN (DOWN) om de projectorlift omlaag te brengen.
2. Schuif de regelschakelaar OMHOOG (UP) om de projector lift omhoog te brengen.

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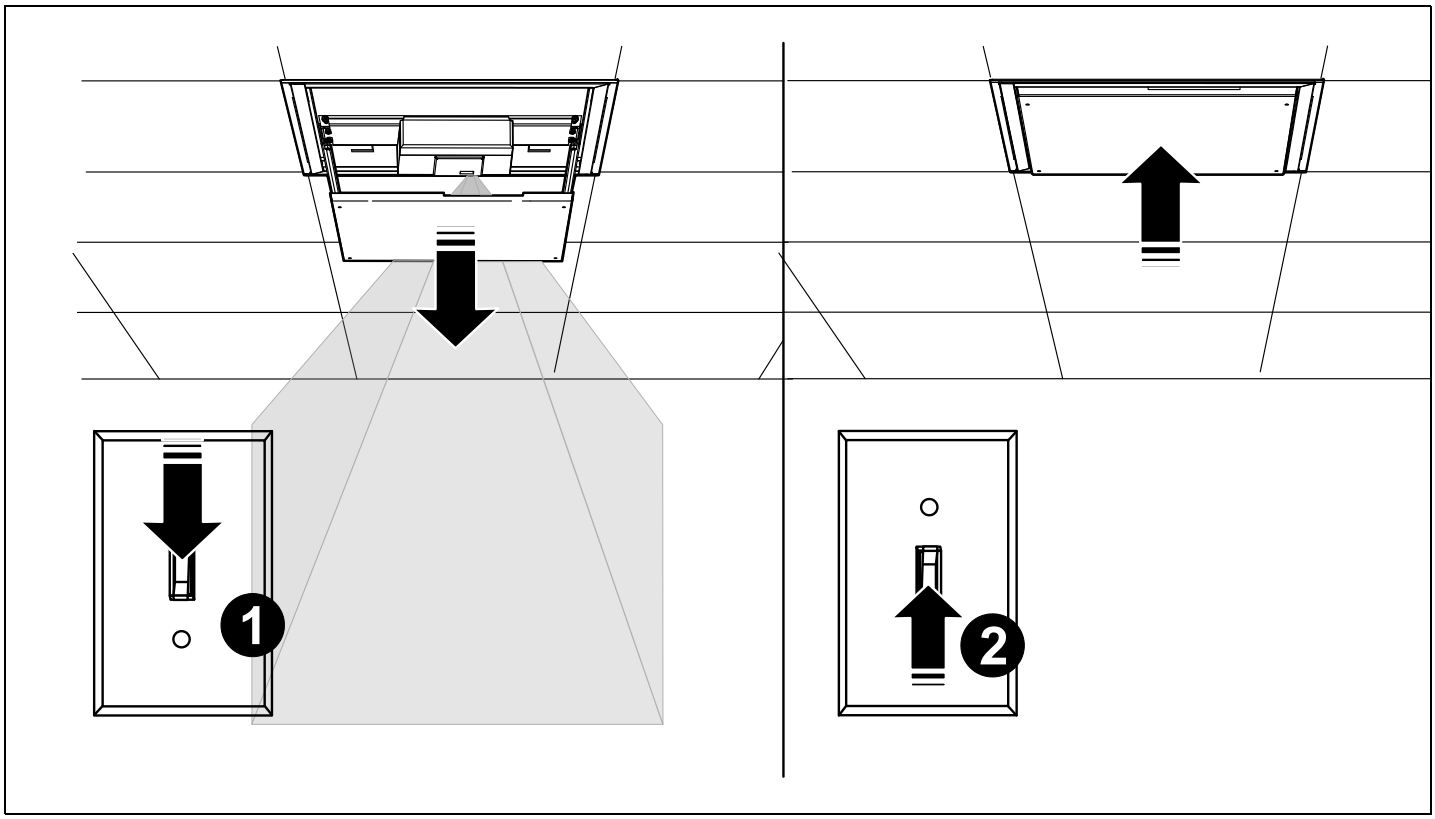

WARNING: AVERTISSEMENT : UNE UTILISATION ABUSIVE PEUT CAUSER LA DÉFAILLANCE DE L'ÉQUIPEMENT ET PEUT CAUSER DES BLESSURES GRAVES ET RÉSULTER EN DES DOMMAGES À L'ÉQUIPEMENT ! Il n'y a aucune pièce pouvant être échangée par l'utilisateur dans l'élévateur SLEU. Si l'élévateur ne fonctionne pas correctement contactez immédiatement un membre du service à la clientèle de Chief en appelant le 1-800-582-6480.

1. Mettre l'interrupteur de contrôle sur la position DOWN (EN BAS) pour abaisser l'élévateur du projecteur.
2. Mettre l'interrupteur de contrôle sur la position UP (EN HAUT) pour élever l'élévateur du projecteur.

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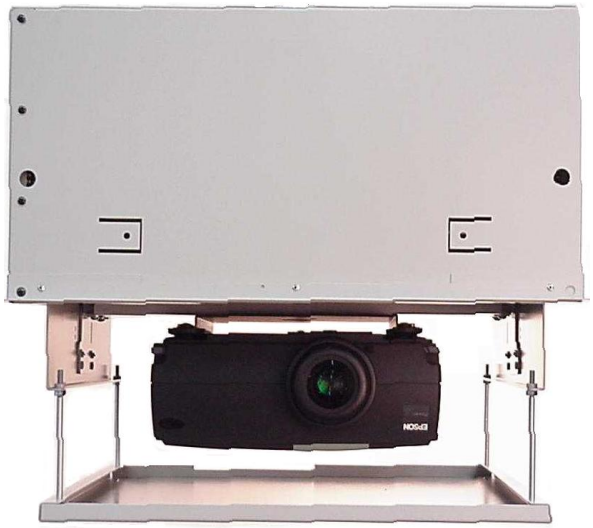
INSTALLATION INSTRUCTIONS

Instrucciones de instalación
Installationsanleitung
Instruções de Instalação
Istruzioni di installazione
Installatie-instructies
Instructions d´installation



SMART-LIFT™ Electric Ceiling Mount

CHIEF®

SLEU

DISCLAIMER

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IMPORTANT SAFETY INSTRUCTIONS!

WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

CAUTION: Read and keep these instructions and heed all warnings.

WARNING: FAILURE TO READ, THOROUGHLY UNDERSTAND, AND FOLLOW ALL INSTRUCTIONS CAN LEAD TO SEVER PERSONAL INJURY, DAMAGE TO EQUIPMENT, OR VOIDING OF FACTORY WARRANTY! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

CAUTION: Clean only with dry cloth.

WARNING: ELECTRIC SHOCK HAZARD! To reduce the risk of electric shock DO NOT use this apparatus near water, or expose this apparatus to rain or moisture.

CAUTION: DO NOT block any ventilation openings and install only in accordance with these instructions.

CAUTION: DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

CAUTION: Protect the power cord from being pinched.

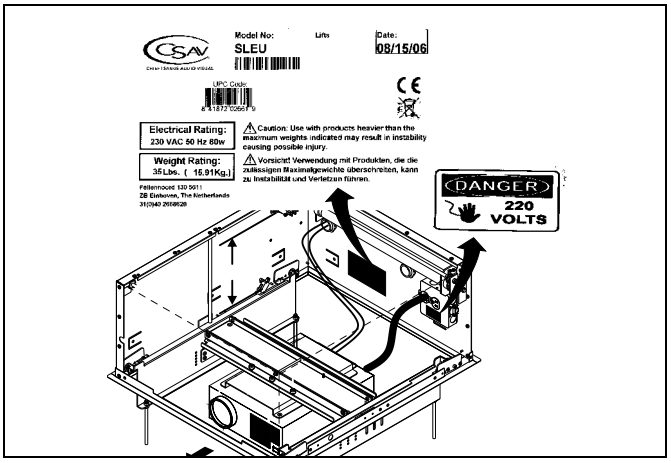
CAUTION: Only use attachments/accessories specified by manufacturer.

CAUTION: Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug has been damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

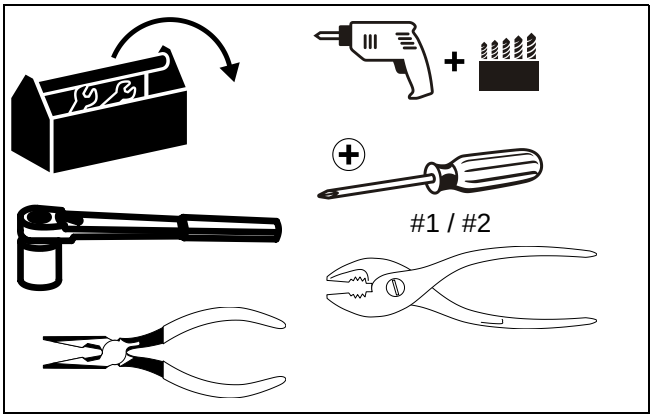
WARNING: FAILURE TO PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR THIS LIFT CAN LEAD TO SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component.

WARNING: EXCEEDING THE IDENTIFIED WEIGHT CAPACITY OF THIS EQUIPMENT CAN LEAD TO SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installer's responsibility to make sure the combined weight of all components attached to the SLEU does not exceed 35 lbs (16 kg).

Hazard Label Locations



TOOLS REQUIRED FOR INSTALLATION



DIMENSIONS

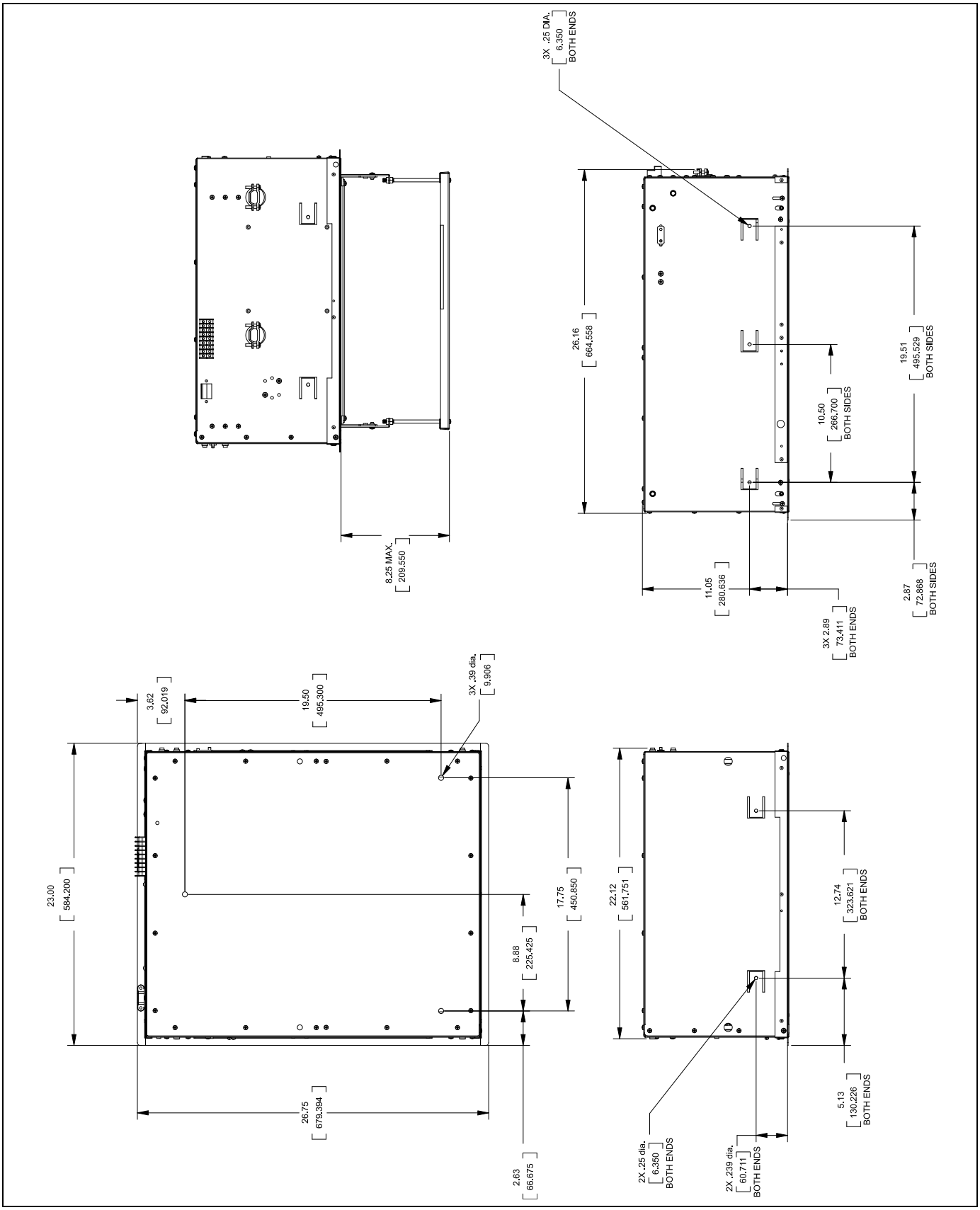
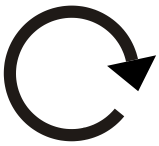
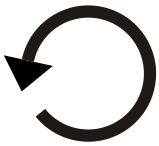
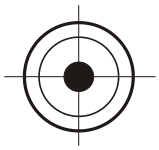


Figure 1

LEGEND

	Tighten Fastener Apretar elemento de fijación Befestigungsteil festziehen Apertar fixador Serrare il fissaggio Bevestiging vastdraaien Serrez les fixations
	Loosen Fastener Aflojar elemento de fijación Befestigungsteil lösen Desapertar fixador Allentare il fissaggio Bevestiging losdraaien Desserrez les fixations
	Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruiskopschroevendraaier Tournevis à pointe cruciforme
	Open-Ended Wrench Llave de boca Gabelschlüssel Chave de bocas Chiave a punte aperte Steeksleutel Clé à fourche
	By Hand A mano Von Hand Com a mão A mano Met de hand À la main
	Target of Projector Punto de enfoque del proyector Ziel des Projektors Mira do projector Punto di proiezione Doel van de projector Cible du projecteur
	Pencil Mark Marcar con lápiz Stiftmarkierung Marcar com lápis Segno a matita Potloodmerkteken Marquage au crayon
	Drill Hole Perforar Bohrloch Fazer furo Praticare un foro Gat boren Percez un trou
	Adjust Ajustar Einstellen Ajustar Regolare Afstellen Ajuster
	Remove Quitar Entfernen Remover Rimuovere Verwijderen Retirez
	Optional Opcional Optional Opcional Opzionale Optie En option
	Security Wrench Llave de seguridad Sicherheitsschlüssel Chave de segurança Chiave di sicurezza Veiligheidssleutel Clé de sécurité

SITE PREPARATION

Site Preparation

Because of the wide variety of possible mounting situations, Chief Manufacturing can only provide general guidelines for preparing the location where the SLEU will be installed. Study the following information carefully, and adapt it as necessary to fit your specific installation.

The installation instructions that follow cover the three most common mounting scenarios:

- Suspended from a 1 1/2" NPT pipe that is secured to a structural cross brace in the ceiling.
- Suspended from three 1/4" threaded rods that are secured to the structural cross brace.
- Side-mounted to the ceiling joists, or secured to a wood framework that is mounted to the ceiling joists.

IMPORTANT ! : If the lift is to be installed in a suspended ceiling, a CMA-240 Suspended Ceiling Installation Kit is available as an accessory to fill gap(s) in the ceiling.

Prepare Opening

1. Carefully determine the position of the ceiling opening, and its distance from (throw distance) and orientation to, the target (area onto which the image will be projected).
2. Prepare an opening in the ceiling. (See figure 3) also (See figure 2)

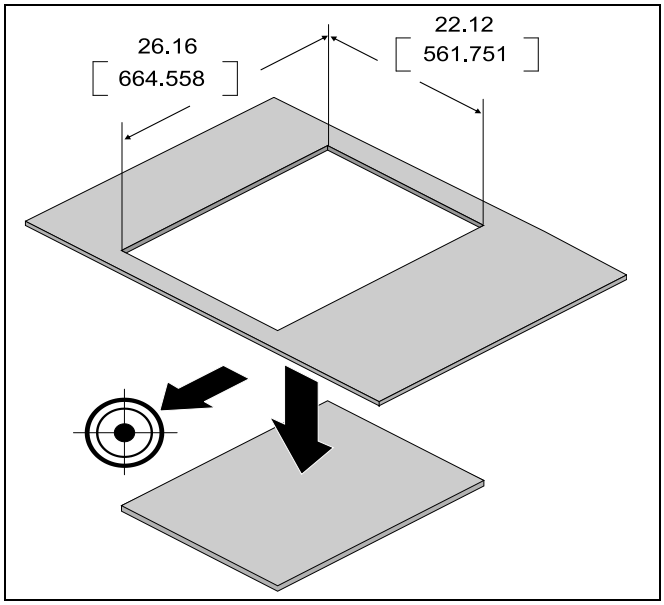


Figure 2

Power Requirements and Wiring

The SLEU requires 220/240VAC 50 Hz power to operate and draws approximately 80 watts.

WARNING: ELECTRIC SHOCK AND FIRE HAZARD! IMPROPER INSTALLATION OF WIRING CAN LEAD TO SEVERE PERSONAL INJURY OR RISK OF FIRE! The installation of this lift requires it be hard wired. ALWAYS have wiring installed by a qualified electrician and follow all electrical codes.

1. Locate and install lift control switch. (not provided)

WARNING: ELECTRIC SHOCK HAZARD! **DO NOT** provide power to switch or energize circuit until lift has been fully installed in ceiling and all connections have been made and verified.

2. Connect control wires to switch and route power, lift control, projector power and signal wires to opening in ceiling. (See figure 3) and (See figure 4)

IMPORTANT ! : Allow enough excess wiring and cable at the opening in ceiling to allow wires and cables to be routed into lift box prior to the lift box being placed into the ceiling.

CAUTION: RUNNING POWER AND SIGNAL CABLE IN CLOSE PROXIMITY TO ONE ANOTHER CAN LEAD TO SIGNAL DETERIORATION! ALWAYS route power and signal wires and cable through separate conduit or a minimum of 3" apart.

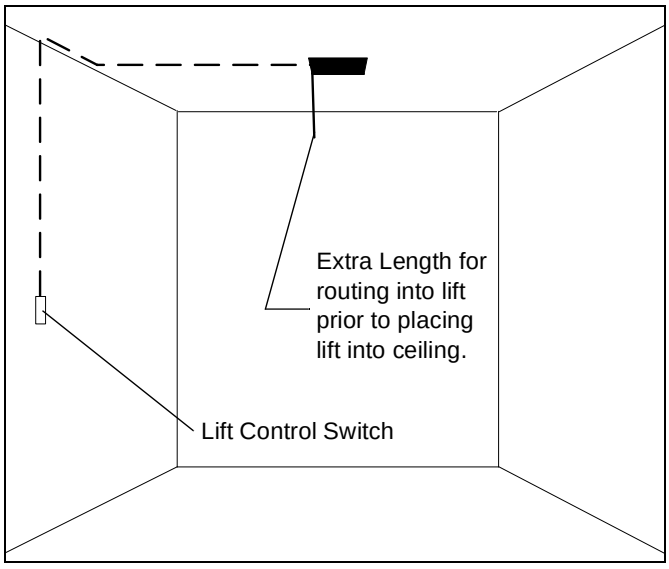


Figure 3

IMPORTANT ! : It may be necessary to install an outlet inside the J-Box (within the lift box) in order to provide power to the projector.

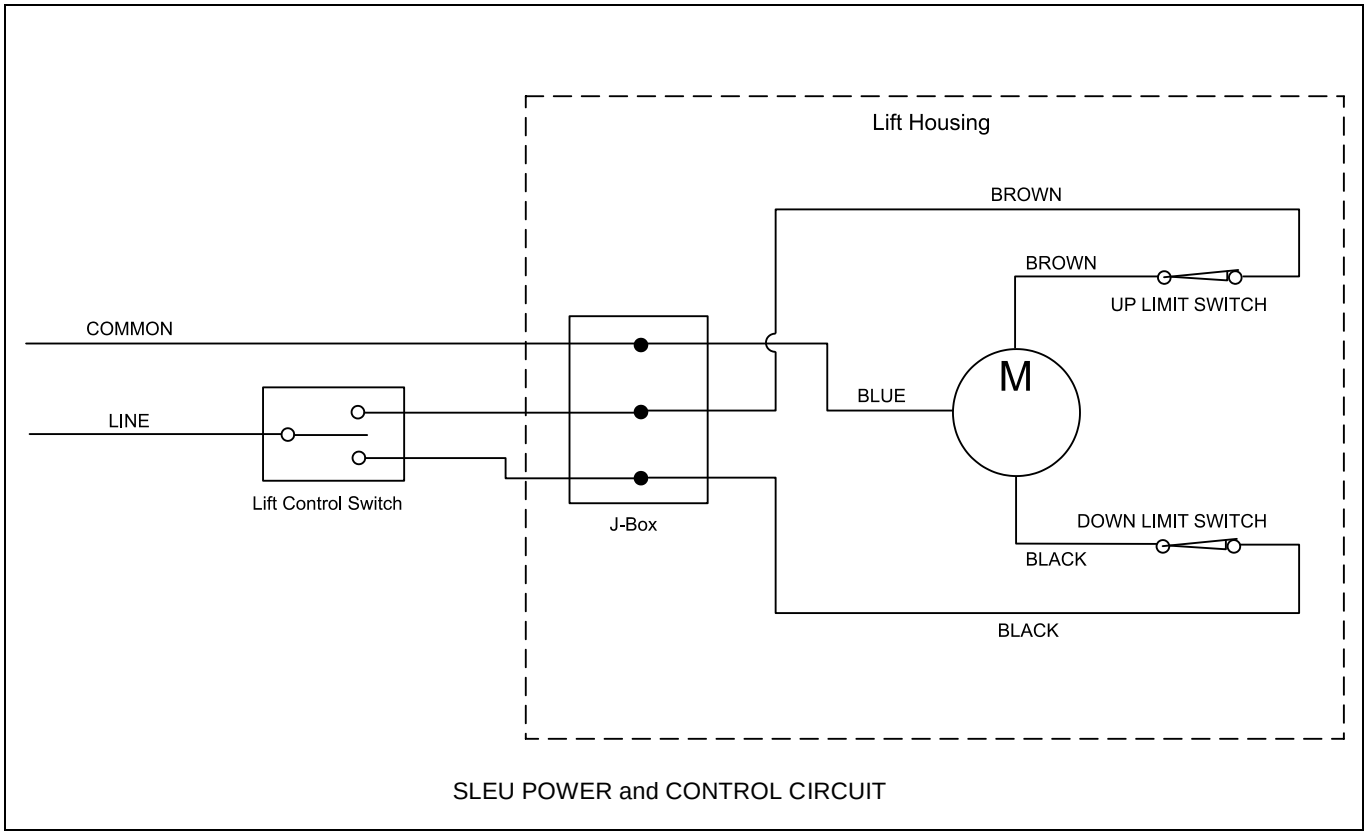


Figure 4

INSTALLATION

1/4" threaded Rod Installation

WARNING: IMPROPER INSTALLATION CAN LEAD TO LIFT FALLING CAUSING SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installers responsibility to make certain the structure to which the lift is being mounted is capable of supporting 5 times the weight of the lift and all attached equipment.

WARNING: LIFT WEIGHS IN EXCESS OF 65 LBS (30KG)! ALWAYS use two people and an appropriate lifting device, and proper lifting techniques when installing or handling this lift.

The SLEU is designed so that it can be installed by being suspended from three 1/4-in.-dia. threaded rods (not supplied) that have been secured to a structural cross brace in the ceiling.

1. Carefully determine the position of the ceiling opening, and its distance from (throw distance) and orientation to, the target.
2. Prepare an opening in the ceiling using the dimensions shown in figure 2.
3. Using two people, orient lift so that flanged side is at top and place it on a flat surface capable of supporting the lift.
4. Remove four caps on lift pan and set aside for re-use.
5. Remove four Phillips pan head screws securing pan to lift and set aside for re-use. (See figure 5)
6. Lift pan off lift and set aside.

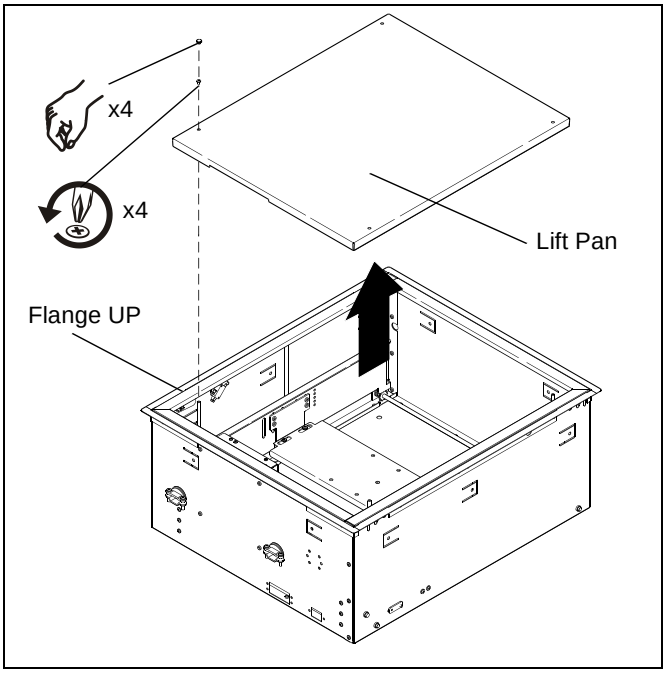


Figure 5

7. Install threaded rods to structural cross braces in ceiling.

NOTE: Installing turnbuckles on the threaded rod will make it easier to level the lift.

8. Using two people orient lift so that flanged side is facing down and motor and electrical junction box are facing away from target.

NOTE: Verify lift is in proper orientation with lift front facing target and flanged side down. (See figure 6)

9. Position and align lift under opening. (See figure 6)
10. Screw three jam nuts on to threaded rods.

NOTE: Jam nuts should be located on rod so that flange of lift housing is seated against ceiling when cover plate rests against jam nuts.

11. Carefully raise and position lift so that mounting holes for threaded rods in lift top cover are aligned with threaded rods installed in ceiling. (See figure 6)

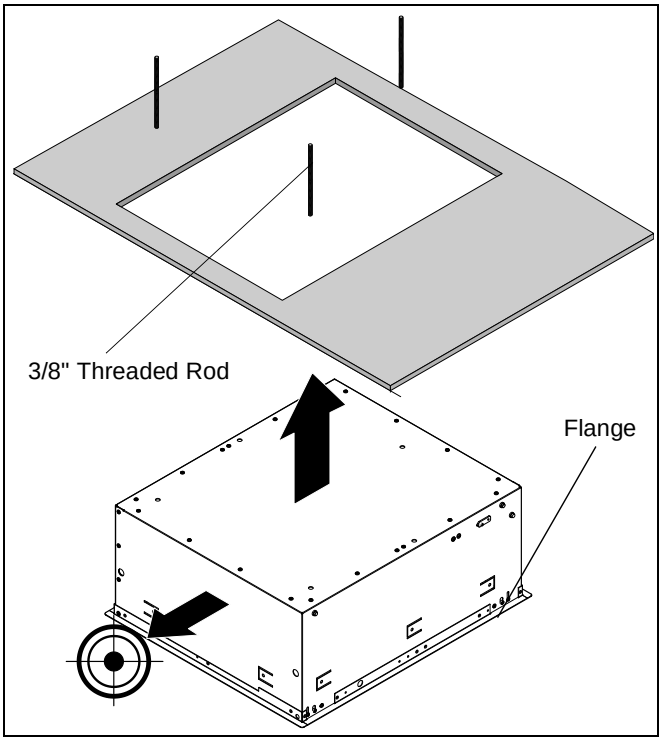


Figure 6

12. Level lift

CAUTION: The lift must be installed square and parallel. Avoid stressing the lift during installation.

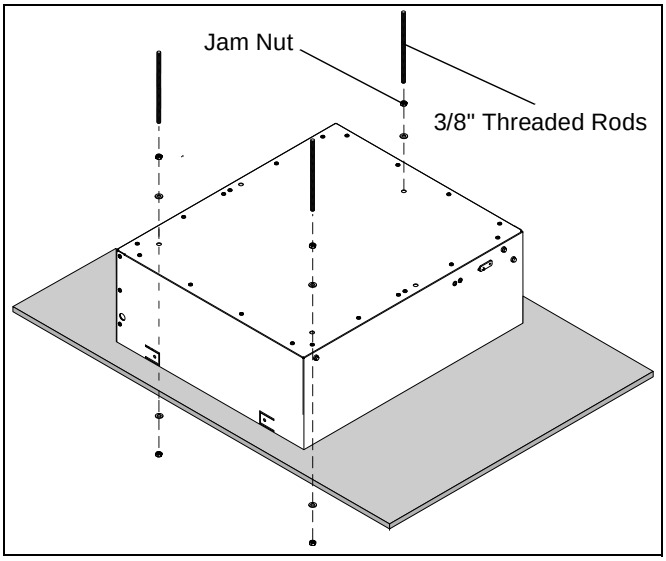


Figure 7

Installation in a Suspended Ceiling (using pipe coupler)

The SLEU can be installed by hanging from a 1 1/2" NPT Pipe and coupling. If this installation is desired contact a Chief Customer Service Representative and order the optional mounting kit Model SMA-600.

Installation in a Wood Framework

The lift housing is designed with joist tabs to allow mounting of the lift to ceiling joists or other wooden framework.

WARNING: IMPROPER INSTALLATION CAN LEAD TO LIFT FALLING CAUSING SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installers responsibility to make certain the structure to which the lift is being mounted is capable of supporting 5 times the weight of the lift and all attached equipment.

WARNING: LIFT WEIGHS IN EXCESS OF 65 LBS (30KG)! ALWAYS use two people and an appropriate lifting device, and proper lifting techniques when installing or handling this lift.

1. Verify lift housing will properly fit within wooden ceiling joists or construct a framework and secure it to the joists. (See figure 1)

NOTE: The lift only requires support on two opposing sides.

2. Using two people, orient lift so that flanged side is at top.
3. Remove four caps on lift pan. (See figure 8)
4. Remove four Phillips pan head screws securing pan to lift and set aside for reuse. (See figure 8)
5. Remove pan off lift and set aside. (See figure 8)

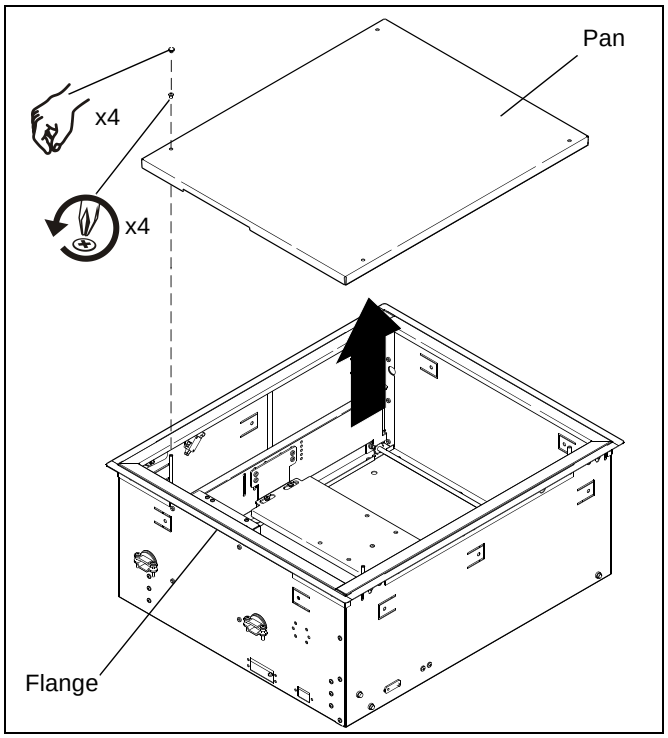


Figure 8

6. Using two people orient lift so that flanged side is facing down and motor and electrical junction box are facing away from target.
7. Using an appropriate lifting device, carefully raise and position lift so that mounting tabs in lift housing are aligned with wood trusses, and flange on lift housing is seated against ceiling.

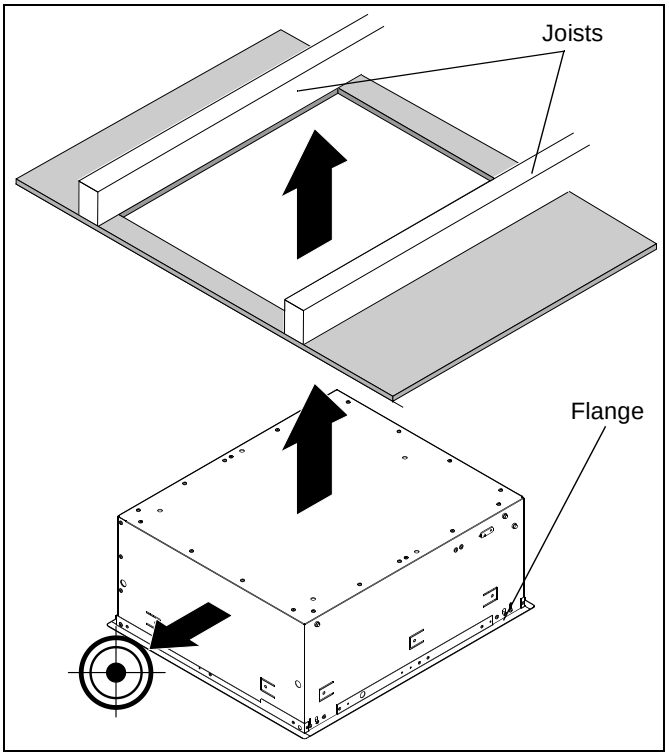


Figure 9

CAUTION: The lift must be installed square and parallel. Avoid stressing the lift during installation.

8. Verify lift is level and is square in alignment.
9. Secure the lift to the joists or wood framework using four, six, or ten 1/4 x1-1/4" lag screws.

IMPORTANT ! : Lag screws must be driven through mounting tabs in lift housing.

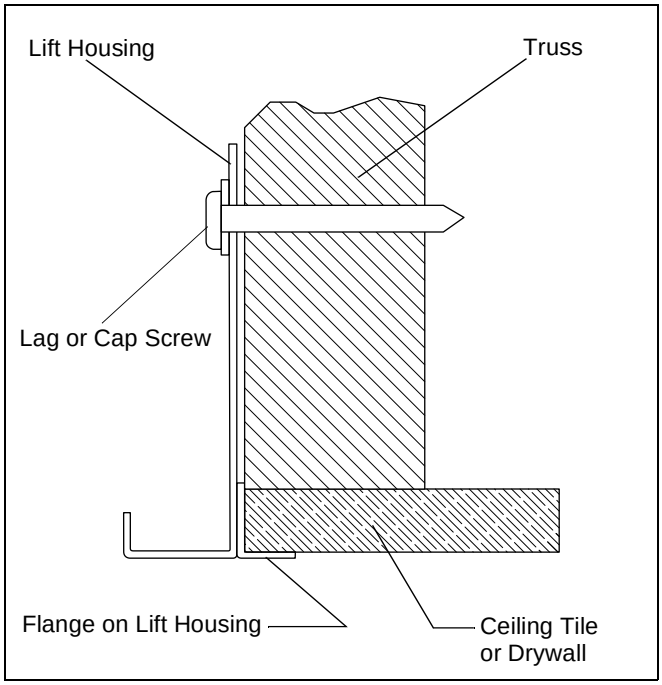


Figure 10

Mount Projector To Lift

The SLEU is designed to accommodate the installation of projectors that have been equipped with an appropriate interface bracket.

IMPORTANT ! : If the projector being mounted does not have the required interface bracket or the bracket will not work properly, immediately contact a Chief Customer Service representative by calling the appropriate number shown on the back cover of this document.

WARNING: IMPROPER INSTALLATION CAN LEAD TO PROJECTOR FALLING CAUSING SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! DO NOT substitute hardware and ALWAYS follow all installation instructions provided with equipment.

IMPORTANT ! : The combined height of projector and interface bracket must not exceed 8 1/4" (210mm).

To install projector:

1. Assemble interface bracket to projector following the instructions provided with the interface bracket.
2. Orient projector and position under lift cradle, aligning studs on interface bracket with mounting holes in cradle.

3. Raise projector upward until studs on interface bracket are through mounting holes in cradle, and secure projector to lift using thumb nuts provided with the interface bracket.

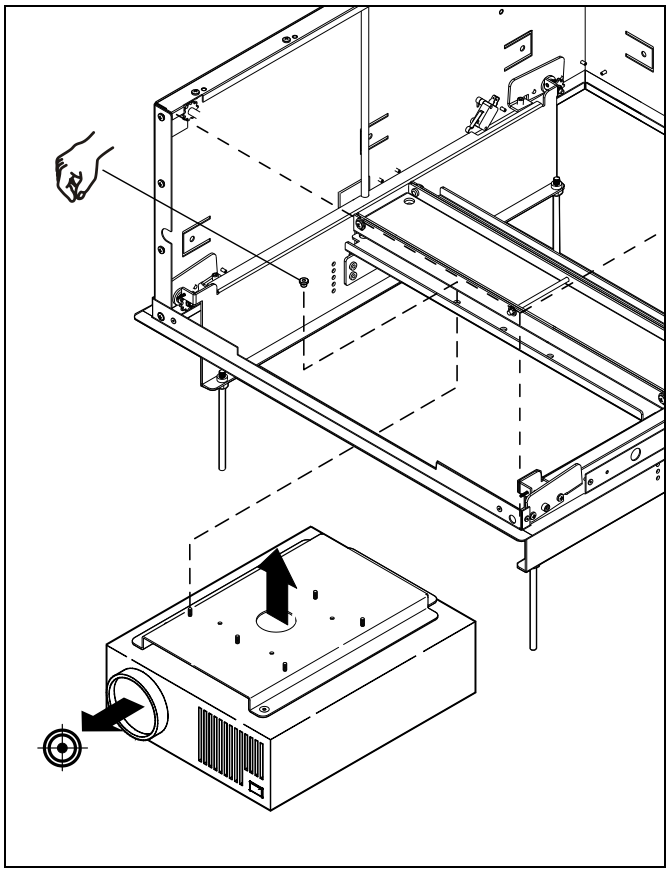


Figure 11

Wiring the Lift and Cable Management

Wiring the Lift

WARNING: ELECTRIC SHOCK AND FIRE HAZARD! IMPROPER INSTALLATION OF WIRING CAN LEAD TO SEVERE PERSONAL INJURY OR RISK OF FIRE! The installation of this lift requires it be hard wired. ALWAYS have wiring installed by a qualified electrician and follow all electrical codes.

WARNING: ELECTRIC SHOCK HAZARD! **DO NOT** provide power to switch or energize circuit until lift has been fully installed in ceiling and all connections have been made and verified.

1. Remove cover from J-Box inside lift housing. (See figure 12)
2. Disconnect wire extensions from wires inside J-Box by turning wire nuts counterclockwise. Set wire nuts aside for re-use. (See figure 12)
3. Install outlet for projector power in J-box if required. (See figure 12)

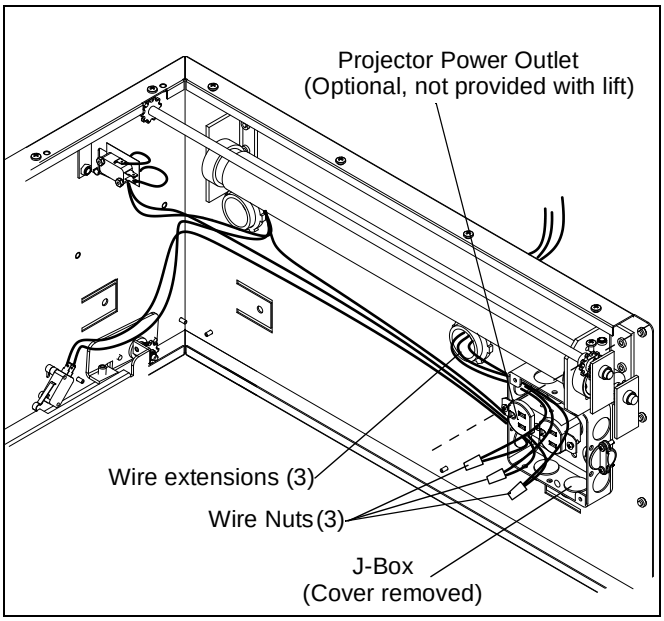


Figure 12

4. Feed common wire from switch and projector power cable through Strain relief and into lift housing. (See figure 13)
5. Feed common wire from switch and projector power cable through Strain relief and into J-Box. (See figure 13)
6. Connect projector power to outlet if installed or to projector following the projector manufacturers instructions.
7. Connect the common wire from switch to the blue (common) wire from motor using wire nut.

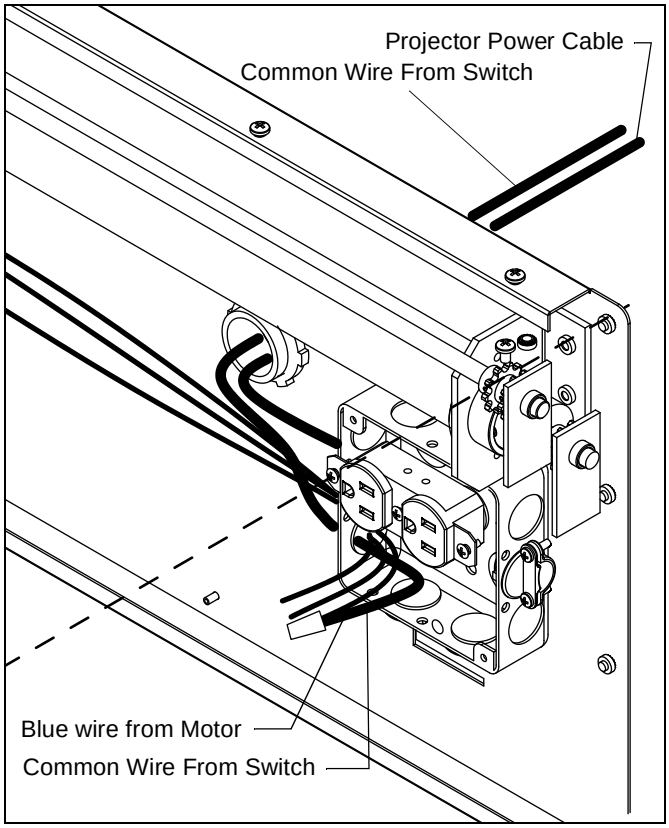


Figure 13

8. Feed control wires from UP and Down sides of control switch through strain relief and into J-Box. (See figure 14)
9. Connect the BROWN wire from the UP limit switch to the wire from the UP side of control switch using a wire nut. (See figure 14)
10. Connect the BLACK wire from the DOWN limit with to the wire from the DOWN side of control switch using a wire nut. (See figure 14)
11. Carefully place all connections into J-Box making sure wire nut connections stay in tact.
12. Replace cover onto J-Box.

Cable Routing and Management

1. Feed video/communication cable through strain relief on the rear of lift housing, and connect to projector. (See figure 15)

IMPORTANT ! : The lift carriage travels approximately 8 1/2" (215mm) when moving from fully UP to fully DOWN position. Wires and cables connected the projector MUST be of proper length to allow for this travel.

WARNING: IMPROPER WIRE AND CABLE ROUTING CAN LEAD TO LOSS OF SIGNAL QUALITY OR DAMAGE TO EQUIPMENT. Make certain wires are routed away from pinch points and properly secured to lift.

2. Secure video or communications cable(s) to lift housing.
3. Tighten strain relief screws to secure cables.

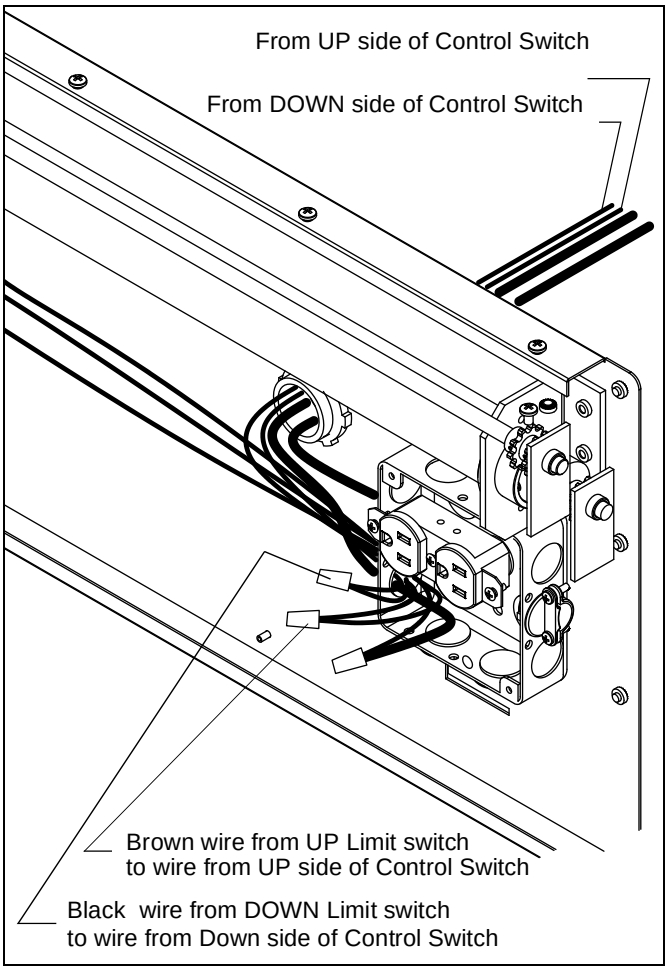

From UP side of Control Switch
From DOWN side of Control Switch
Brown wire from UP Limit switch
to wire from UP side of Control Switch
Black wire from DOWN Limit switch
to wire from Down side of Control Switch

Figure 14

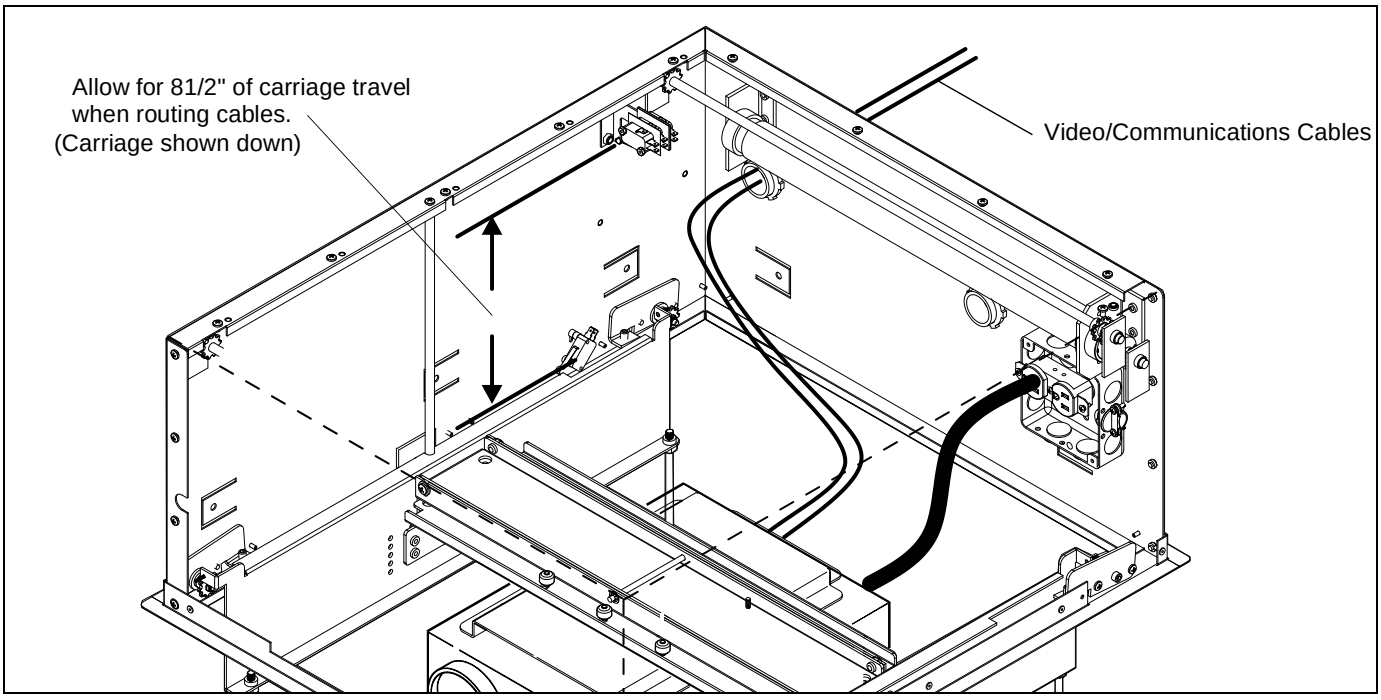


Figure 15

4. Install lift pan to lift carriage using four Phillips pan head screws.
5. Install four screw covers onto lift pan.

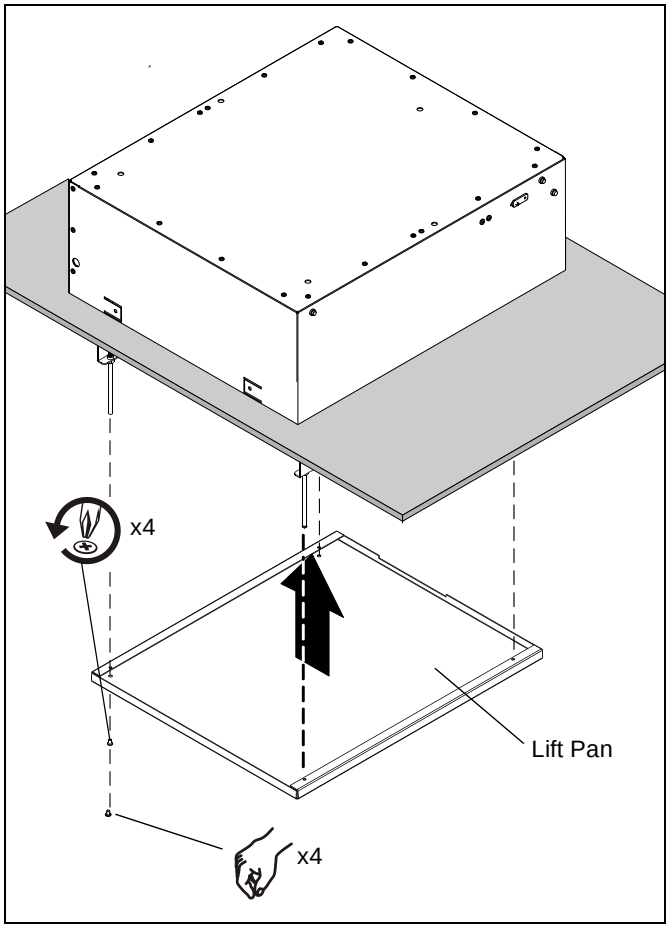


Figure 16

6. Connect lift power supply cable to control switch to energize the lift circuit.

WARNING: LIFT MAY MOVE WITOUT WARNING WHEN INITIALLY POWERED ALEADING TO SEVER PERSONAL INJURY. ALWAYS keep fingers, hands and clothing away from lift pan when lift is operating.

ADJUSTMENTS

The SLEU is designed to provide projector throw adjustments in the YAW, Pitch and Roll directions.

WARNING: ADJUSTMENTS REQUIRE LIFT AND PROJECTOR TO POWER SUPPLY TO BE "ON". Keep hands and clothing away from moving parts.

Yaw Adjustment

To adjust projector YAW:

1. Move the lift to the fully “down” position.
2. Loosen four screws (two on each end of cradle assembly) securing projector mounting bracket to cradle. (See figure 17)
3. Move one end of projector mounting bracket towards front or rear of lift until image is properly aligned. (See figure 17)
4. Tighten four screws.

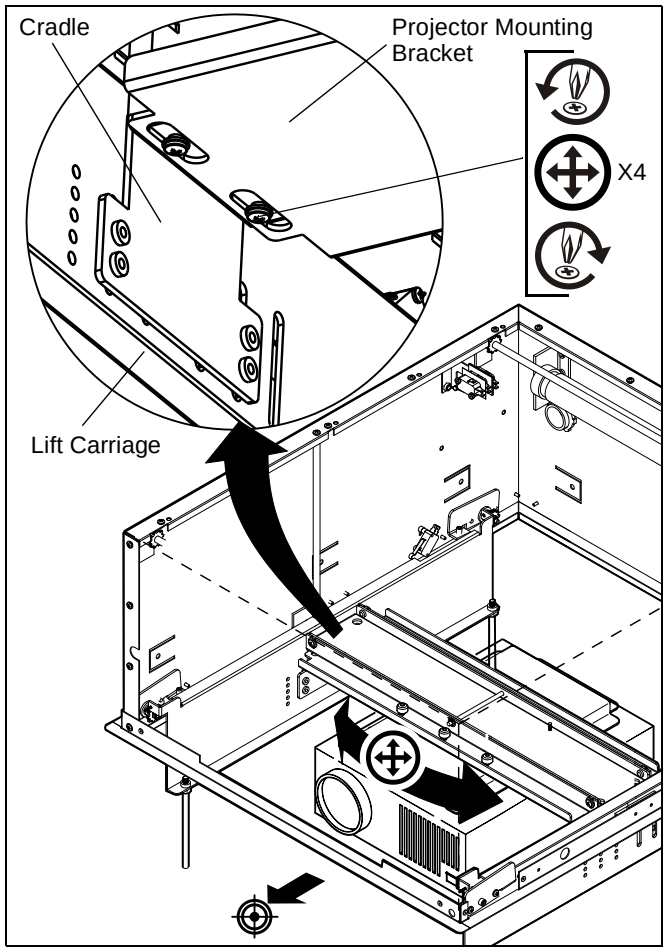


Figure 17

Continued

Pitch Adjustment

To adjust projector PITCH:

1. Move the lift to the fully “down” position.
2. Loosen four screws (two on each end) securing cradle assembly to lift carriage. (See figure 18)
3. Tip cradle towards front or rear of projector until image is properly aligned.

IMPORTANT ! : The cradle assembly can be repositioned to assist in projector alignment, however, cradle mounting must mirror holes and slots from one side to the other.

4. Tighten four screws.

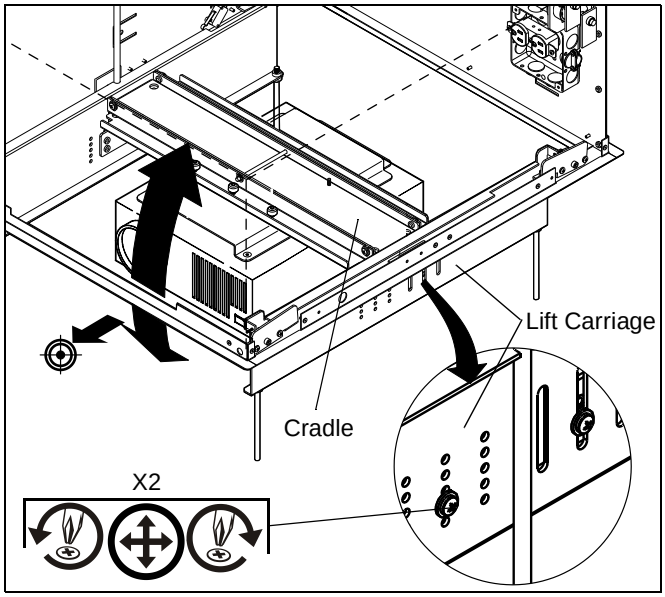


Figure 18

Roll Adjustment

To adjust projector ROLL:

1. Move the lift to the fully “down” position.
2. Loosen four screws securing each end of projector mounting bracket to cradle.
3. Move one end of projector mounting bracket up or down until image is properly aligned.
4. Tighten four screws.

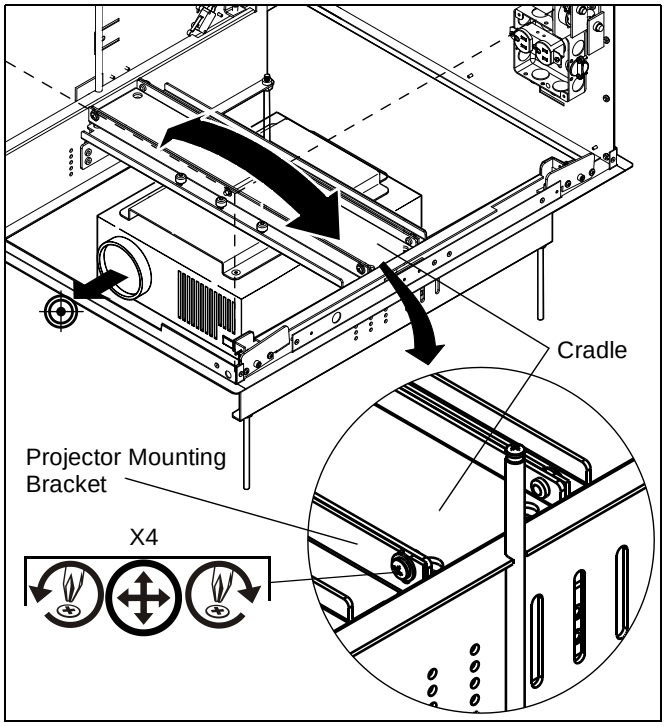


Figure 19

CHIEF | SANUS AUDIO VISUAL

MANUFACTURERS DECLARATION OF CONFORMITY

For

Product identification:

Model/type : SLEU
Category (description) : Ceiling Mount Projector Lift
Brand : Smart-Lift

Manufacturer: CSAV Inc.
8401 Eagle Creek Parkway
Savage, MN 55378

EU Representative: CSAV Inc.
Fellennoord 130 5611
ZB Einhoven
The Netherlands
31(0)40 2668620

Concerning				
	EMC	**Safety**		
A sample of the product has been tested by:	TUV America	CSAV Inc.		
Test report reference	.WC603854 dated 03 July 2006			
Applied standards	EN55014-1	EN 60065 :2002		

Means of conformity

We declare under our sole responsibility that this product is in conformity with Directive 93/68/EEC (Marking), 98/37/EC (Machinery) 2001/95/EC (Safety) and/or complies to the essential requirements and all other relevant provisions of the based on test results using (non)harmonized standards in accordance with the Directives mentioned

8820-000004 Rev B
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